9. FILTER TEST SECTIONS

- A. INSTALL TEST SECTIONS UPSTREAM AND DOWNSTREAM OF EACH HEPA FILTER AND CHEMICAL ADSORBER EXCEPT AS NOTED.
 - SINGLE, 1 HIGH X 1 WIDE, HEPA INSTALLATION DOES NOT REQUIRE AN UPSTREAM TEST HOUSING PROVIDING A SAMPLING PORT IS FACTORY INSTALLED IN THE HEPA HOUSING AND AN INJECTION PORT IS LOCATED IN THE UPSTREAM DUCTWORK. SEE SHEET 1.

10. FILTER TRAIN

- A. LOCATE THE FILTER TRAIN INDOORS IF FEASIBLE.
 CONSULT WITH THE FACILITY MANAGER, ESH AND THE USER
 FOR LOCATION APPROVAL.
- B. LOCATE THE FILTER TRAIN AS CLOSE AS POSSIBLE TO THE SOURCE OF CONTAMINATION. PROVIDE A MINIMUM OF 10'-O" OF DUCTWORK BETWEEN THE SOURCE AND THE FILTER TRAIN TRANSITION FLANGE.
- C. A CLEARANCE OF 5'-0" IS REQUIRED FOR FILTER CHANGE OUT FROM FACE OF ACCESS DOOR.
- D. IN PLACE ACCEPTANCE TESTS (DOS, FREON, ETC.) OF THE INSTALLED HEPA FILTERS, AND THE CHEMICAL ADSORBERS ARE DONE BY LANL.
- E. SPECIFY FILTER ACCESS DOORS ON BOTH SIDES OF THE HOUSING WHEN THERE ARE MORE THAN 3 FILTERS WIDE IN A BANK.
- F. DO NOT SPECIFY HOUSINGS EXCEEDING 6 FILTERS WIDE OR 3 FILTERS HIGH.

11. MAGNEHELIC GAUGES

- A. PROVIDE GAUGES TO MEASURE THE PRESSURE DIFFERENTIAL ACROSS EACH FILTER BANK (I.E., FIRE SCREEN, PREFILTERS, 1ST AND 2ND HEPA BANK, CHEMICAL ADSORBERS, ETC.)
- B. LOCATE THE GAUGES INDOORS WHEN THE FILTER TRAIN IS INSTALLED OUTDOORS.
- C. SEE DRAWING ST6705 FOR MAGNEHELIC GAUGE DETAILS.

- 12. CONSIDER SECONDARY AND TERTIARY CONFINEMENT SYSTEMS TO MINIMIZE THE SPREAD OF RADIOACTIVE AND OTHER HAZARDOUS MATERIALS. CONSULT WITH ESH AND THE USER FOR THE REQUIREMENTS AND CONDITIONS FOR MINIMIZING THE DISPERSION OF THE HAZARDOUS MATERIALS.
- 13. REDUNDANT EQUIPMENT, I.E., EXHAUST FANS, FILTERS, FILTER TRAINS, ETC., MAY BE REQUIRED IF THE EXHAUST SYSTEM IS A SAFETY CLASS ITEM PER DOE 6430.1A, SECTION 1300-3. CONSULT WITH ESH AND THE USER. ALSO, REDUNDANCY, WHEN NOT A SAFETY CLASS ITEM, IS USUALLY DETERMINED BY THE USER, I.E., HOW LONG OF A TIME THE SYSTEM CAN BE DOWN.
- 14. CONSULT WITH THE PROJECT LEADER FOR THE SPECIFIC PROJECT REQUIREMENTS THAT WILL GOVERN THE SEISMIC CRITERIA TO BE USED.
- 15. CONSULT WITH FWO DIVISION FIRE PROTECTION GROUP FOR FIRE PROTECTION REQUIREMENTS OF HEPA FILTERS.

